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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,478	07/22/2003	Hirokazu Iwata	07610/000M901-US0	9109
7278 75	90 04/08/2005		EXAMINER	
DARBY & DARBY P.C.			DOUGHERTY, THOMAS M	
P. O. BOX 5257 NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 04/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/625,478	IWATA, HIROKAZU			
Office Action Summary	Examiner	Art Unit			
	Thomas M. Dougherty	2834			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02 Fe	ebruary 2005.				
,—	action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) <u>1-3</u> is/are withdrawn to 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>4-6</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or					
Application Papers		· -			
9)☐ The specification is objected to by the Examine. 10)☒ The drawing(s) filed on 22 January 2004 is/are: Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction. 11)☐ The oath or declaration is objected to by the Examine.	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 4 indicates that the secondary electrodes are grounded, then goes on to say they can serve as output terminals. This appears contradictory since if grounded they provide no output voltage to any other component. Claim 5 at line 16 on page 13 cites "said measuring" which has no proper antecedent basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 4, as best understood, is rejected under 35 U.S.C. 102(b) as being clearly anticipated by admitted prior art of the applicant. Said prior art shows (applicants figures 4a-4b) an AT-cut crystal (31) for forming piezoelectric resonators, said AT-cut crystal substrate (31) comprising: a pair of primary electrodes (33a, 33b) disposed roughly at the center of said AT-cut crystal substrate (31); and a pair of secondary electrodes (36a, 36b), which are formed in a shape surrounding said primary electrodes

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(33a, 33b) and are electrically short-circuited (page 2, lines 12-14 of applicants disclosure), wherein: said secondary electrodes (36a, 36b) are grounded; and one of said pair of primary electrodes (33a, 33b) and said secondary electrodes (36a, 36b) serve as input terminals and another of said pair of primary electrodes and said secondary electrodes serve as output terminals.

Allowable Subject Matter

Claims 5 and 6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to show or fairly suggest first through six grooves wherein the first through fourth grooves are in one direction and the fifth and sixth are in a perpendicular direction to that direction in an AT cut crystal substrate for forming piezoelectric resonators.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining prior art cited reads on at least some aspects of the claimed invention.

Direct inquiry to Examiner Dougherty at (571) 272-2022.

March 11, 2005

TOM DOUGHERTY PRIMARY EXAMINER